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10/679,870	10/06/2003	Patrick Williams	5150-77600	3836	
7590 08/15/2008 Jeffrey C. Hood			EXAM	EXAMINER	
Meyertons, Hood, Kivlin, Kowert & Goetzel PC			YIGDALL,	YIGDALL, MICHAEL J	
P.O. Box 398 Austin, TX 78	767		ART UNIT	PAPER NUMBER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/679.870 WILLIAMS ET AL. Office Action Summary Examiner Art Unit Michael J. Yigdall 2192 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 10 June 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.9-13.20-24.26.27.31 and 32 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1,9-13,20-24,26,27,31 and 32 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

Paper No(s)/Mail Date 06/26/2008.

Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

DETAILED ACTION

 A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on June 10, 2008 has been entered. Claims 1, 9-13, 20-24, 26, 27, 31 and 32 are pending.

Response to Arguments

Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection set forth below.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

 Claim 27 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

With respect to claim 27 (currently amended), the claim is directed to a method.

However, as recited, the "method" is not tied to any particular apparatus, and therefore does not qualify as a statutory process. Accordingly, the claim is directed to non-statutory subject matter.

See MPEP § 2106.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
obviousness rejections set forth in this Office action;

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1, 9-11, 13, 20-24, 26, 27, 31 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,026,233 to Shulman et al. (now made of record, "Shulman") in view of U.S. Patent No. 5,784,275 to Sojoodi et al. (now made of record, "Sojoodi").

With respect to claim 1 (currently amended), Shulman teaches a computer-readable memory medium storing program instructions (see, for example, FIG. 1 and the abstract) executable to:

in source code of a software program, display a first function call written in a text-based programming language that can be compiled into executable code, wherein the first function call takes a first parameter (see, for example, FIG. 7 and column 11, lines 51-63, which shows displaying in such source code a first function call 732 that takes a first parameter 742);

Shulman further teaches that the program instructions are executable to programmatically determine one or more valid parameter values for the first parameter of the first function call (see, for example, column 11, lines 38-50, which shows one or more valid parameter values for the first parameter 742, and column 17, lines 27-38, which shows programmatically determining such values), but does not explicitly describe invoking software for a measurement device in

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order to determine one or more resources of the measurement device, wherein each of the one or more valid parameter values represents a respective resource of the one or more resources.

Nonetheless, in an analogous art, Sojoodi teaches a programming environment for creating a software program to control an instrument or measurement device (see, for example, the abstract). The instrument or measurement device comprises one or more resources (see, for example, column 4, lines 25-40). Sojoodi further teaches invoking software for the measurement device in order to determine the one or more resources (see, for example, column 7, lines 3-17). One or more valid parameter values represent the resources in function calls (see, for example, column 5, lines 23-51).

One of ordinary skill in the art could, with predictable results, apply the teachings of Shulman to a programming environment such as described in Sojoodi, such that the source code described in Shulman represents a software program for controlling an instrument or measurement device. Thus, as Sojoodi suggests, it would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the teachings of Shulman so as to invoke software for a measurement device in order to determine one or more resources of the measurement device, wherein each of the one or more valid parameter values represents a respective resource of the one or more resources.

Shulman in view of Sojoodi further teaches or suggests that the program instructions are executable to:

position a cursor on the first function call displayed in the source code in response to user input (see, for example, FIG. 7 and column 11, lines 51-63, which shows positioning a cursor 733 on the first function call 732 in the source code);

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in response to user input requesting to select a parameter value, determine that the cursor is positioned on the first function call and display a graphical user interface for selecting a parameter value for the first parameter of the first function call, wherein the graphical user interface visually indicates the one or more valid parameter values (see, for example, FIG. 8 and column 12, lines 17-30, which shows displaying a graphical user interface 850 for selecting a valid parameter value in response to such user input);

receive user input to the graphical user interface to select a first parameter value from the one or more valid parameter values, wherein the first parameter value represents a first resource of the measurement device (see, for example, FIG. 9 and column 12, lines 33-40, which shows receiving user input to select a parameter value 910); and

automatically modify the first function call displayed in the source code of the software program by including the first parameter value in the first function call in response to the user input selecting the first parameter value, wherein automatically including the first parameter value in the first function call aids a user in modifying the first function call to reference the first resource of the measurement device (see, for example, FIG. 9 and column 12, lines 33-40, which shows automatically modifying the first function call 732 to include the parameter value 910).

With respect to claim 9 (currently amended), the rejection of claim 1 is incorporated, and Shulman in view of Sojoodi further teaches or suggests,

wherein the measurement device comprises a GPIB device;

wherein said determining the one or more resources of the measurement device comprises determining one or more GPIB resources of the GPIB device;

wherein the first parameter value represents a first GPIB resource of the GPIB device;

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wherein said automatically including the first parameter value in the first function call comprises automatically configuring the first function call with a reference to the first GPIB resource.

Specifically, Sojoodi describes that the instrument or measurement device comprises a GPIB device and that the one or more resources comprise GPIB resources (see, for example, column 4, lines 25-40).

With respect to claim 10 (currently amended), the rejection of claim 1 is incorporated, and Shulman in view of Sojoodi further teaches or suggests,

wherein the measurement device comprises a Visa device;

wherein said determining the one or more resources of the measurement device comprises determining one or more Visa resources of the Visa device;

wherein the first parameter value represents a first Visa resource of the Visa device; wherein said automatically including the first parameter value in the first function call comprises automatically configuring the first function call with a reference to the first Visa resource.

Specifically, Sojoodi describes that the instrument or measurement device comprises a VISA device and that the one or more resources comprise VISA resources (see, for example, column 4, lines 25-40).

With respect to claim 11 (currently amended), the rejection of claim 1 is incorporated, and Shulman in view of Sojoodi further teaches or suggests,

wherein the measurement device comprises a DAO device:

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wherein said determining the one or more resources of the measurement device comprises determining one or more DAQ resources of the DAQ device;

wherein the first parameter value represents a first DAQ resource of the DAQ device; wherein said automatically including the first parameter value in the first function call comprises automatically configuring the first function call with a reference to the first DAQ resource.

Specifically, Sojoodi describes that the instrument or measurement device comprises a DAQ device and that the one or more resources comprise DAQ resources (see, for example, column 4, lines 25-40).

With respect to claim 13 (currently amended), the rejection of claim 1 is incorporated, and Shulman in view of Sojoodi further teaches or suggests that the program instructions are further executable to:

receive user input specifying filtering criteria for the parameter values (see, for example, column 11, lines 6-30, which shows specifying filtering criteria for the parameter values);

wherein the graphical user interface visually indicates only a subset of the valid parameter values, wherein the subset is determined based on the specified filtering criteria (see, for example, column 11, lines 6-30, which shows indicating only a subset of the valid parameter values based on the filtering criteria).

With respect to claim 20 (previously presented), the rejection of claim 1 is incorporated, and Shulman in view of Sojoodi further teaches or suggests,

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wherein the source code is displayed in a first window (see, for example, FIG. 8, which shows that the source code is displayed in a first window 700);

wherein said displaying the graphical user interface comprises displaying the graphical user interface in a separate window apart from the first window (see, for example, FIG. 8, which shows that the graphical user interface 850 is displayed in a separate window).

With respect to claim 21 (previously presented), the rejection of claim 1 is incorporated, and Shulman in view of Sojoodi further teaches or suggests,

wherein the source code is displayed in a first portion of a first window (see, for example, FIG. 8, which shows that the source code is displayed in a first portion of a first window 700);

wherein said displaying the graphical user interface comprises displaying the graphical user interface in a second portion of the first window (see, for example, FIG. 8, which shows that the graphical user interface 850 is displayed in a second portion of the first window).

With respect to claim 22 (currently amended), the rejection of claim 1 is incorporated, and Shulman in view of Sojoodi further teaches or suggests,

wherein the graphical user interface displays the one or more valid parameter values as a list (see, for example, column 7, lines 22-37, which shows that the valid parameter values are displayed as a list);

wherein said receiving user input to the graphical user interface to select the first parameter value comprises receiving user input to the graphical user interface to select the first parameter value from the list (see, for example, column 7, lines 22-37, which shows that the parameter value is selected from the list).

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With respect to claim 23 (currently amended), the rejection of claim 1 is incorporated, and Shulman in view of Sojoodi further teaches or suggests,

wherein said programmatically determining the one or more valid parameter values includes programmatically determining one or more property values;

wherein said receiving user input to the graphical user interface to select the first parameter value comprises receiving user input to the graphical user interface to select a first property value;

wherein the first property value is automatically included in the first function call in response to the user input selecting the first property value.

Specifically, Shulman describes that the parameter values correspond to property values (see, for example, column 11, lines 38-50), and Sojoodi likewise describes that the parameter values correspond to attribute or property values (see, for example, column 5, lines 23-51).

With respect to claim 24 (currently amended), the claim is directed a computer-readable memory medium that is analogous to the computer-readable memory medium recited in claim 1 (see the rejection of claim 1 above). Note that a method call such as recited in claim 24 is analogous to a function call such as recited in claim 1.

With respect to claim 26 (currently amended), the claim is directed to a system that corresponds to the computer-readable memory medium recited in claim 1 (see the rejection of claim 1 above). Note that Shulman teaches one or more processors and a display device such as recited in claim 26 (see, for example, FIG. 1).

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With respect to claim 27 (currently amended), the claim is directed to a method that corresponds to the computer-readable memory medium recited in claim 1 (see the rejection of claim 1 above). Note that Sojoodi describes that the software for the measurement device includes an application programming interface (API) such as recited in claim 27 (see, for example, column 3, line 64 to column 4, line 6).

With respect to claim 31 (currently amended), Shulman teaches a computer-readable memory medium storing program instructions (see, for example, FIG. 1 and the abstract).

Shulman further teaches that the program instructions are executable to display source code of a program, wherein the source code includes a first function call that takes a first input parameter (see, for example, FIG. 7 and column 11, lines 51-63, which shows displaying in source code a first function call 732 that takes a first input parameter 742), but does not explicitly describe that the program instructions are executable to:

display a block diagram of a graphical program, wherein the block diagram includes a plurality of interconnected nodes visually indicating functionality of the graphical program, wherein the block diagram can be compiled into executable code, wherein the plurality of interconnected nodes includes a first node that takes a first input parameter.

Likewise, Shulman further teaches that the program instructions are executable to programmatically determine one or more valid parameter values for the first input parameter of the first function call (see, for example, column 11, lines 38-50, which shows one or more valid parameter values for the first parameter 742, and column 17, lines 27-38, which shows programmatically determining such values), but does not explicitly describe invoking software for a measurement device in order to determine one or more resources of the measurement

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device, wherein each of the one or more valid parameter values represents a respective resource of the one or more resources.

Nonetheless, in an analogous art, Sojoodi teaches a programming environment for creating a graphical program including a block diagram to control an instrument or measurement device (see, for example, FIG. 6 and the abstract). The instrument or measurement device comprises one or more resources (see, for example, column 4, lines 25-40). The block diagram includes interconnected nodes that take input parameters and represent the functionality of the graphical program (see, for example, column 5, lines 11-42). Sojoodi further teaches invoking software for the measurement device in order to determine the one or more resources (see, for example, column 7, lines 3-17). One or more valid parameter values represent the resources in function calls (see, for example, column 5, lines 23-51).

One of ordinary skill in the art could, with predictable results, apply the teachings of Shulman to a programming environment such as described in Sojoodi, such that the source code described in Shulman represents a graphical program for controlling an instrument or measurement device. Thus, as Sojoodi suggests, it would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the teachings of Shulman so as to display a block diagram of a graphical program, wherein the block diagram includes a plurality of interconnected nodes visually indicating functionality of the graphical program, wherein the block diagram can be compiled into executable code, wherein the plurality of interconnected nodes includes a first node that takes a first input parameter. Likewise, it would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the teachings of Shulman so as to invoke software for a measurement device in order to determine

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one or more resources of the measurement device, wherein each of the one or more valid narameter values represents a respective resource of the one or more resources.

Shulman in view of Sojoodi further teaches or suggests that the program instructions are executable to:

display a graphical user interface for selecting a parameter value for the first input parameter of the first node, wherein the graphical user interface for selecting the parameter value visually indicates the one or more valid parameter values (see, for example, FIG. 8 and column 12, lines 17-30, which shows displaying a graphical user interface 850 for selecting a valid parameter value in response to such user input);

receive user input to the graphical user interface to select a first parameter value from the one or more valid parameter values, wherein the first parameter value represents a first resource of the measurement device (see, for example, FIG. 9 and column 12, lines 33-40, which shows receiving user input to select a parameter value 910); and

automatically configure the first node with the first parameter value in response to the user input selecting the first parameter value, wherein automatically configuring the first node with the first parameter value comprises automatically updating the displayed block diagram to visually indicate that the first node receives the first parameter value as input (see, for example, FIG. 9 and column 12, lines 33-40, which shows automatically configuring the first function call 732 to include the parameter value 910).

With respect to claim 32 (previously presented), the rejection of claim 31 is incorporated, and Shulman in view of Soioodi further teaches or suggests.

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wherein automatically configuring the first node with the first parameter value comprises automatically wiring the first parameter value to an input terminal of the first node;

wherein updating the block diagram comprises displaying a wire connecting the first parameter value to the input terminal of the first node.

Specifically, Sojoodi describes that configuring the block diagram comprises wiring a parameter value to an input terminal of a node and displaying the wire (see, for example, column 5, lines 52-67).

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Shulman in view
of Sojoodi, as applied to claim 1 above, and further in view of U.S. Patent No. 6,370,569 to
Austin (now made of record, "Austin").

With respect to claim 12 (currently amended), the rejection of claim 1 is incorporated. Sojoodi describes that the instrument or measurement device comprises an Ethernet device and that the one or more resources comprise Ethernet resources (see, for example, column 4, lines 25-40), but does not explicitly describe,

wherein said determining the one or more valid parameter values comprises determining one or more universal resource locators (URLs) that represent the one or more resources of the measurement device;

wherein the first parameter value comprises a first URL of the one or more URLs;

wherein said automatically including the first parameter value in the first function call
comprises automatically configuring the first function call with a reference to the first URL.

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Nonetheless, in an analogous art, Austin teaches parameter values comprising uniform resource locators (URLs) that represent resources (see, for example, column 2, lines 30-51). The teachings of Austin enable a program to access data from resources located on a network (see, for example, column 2, lines 20-29).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to implement the teachings of Shulman and Sojoodi such that said determining the one or more valid parameter values comprises determining one or more universal resource locators (URLs) that represent the one or more resources of the measurement device, such that the first parameter value comprises a first URL of the one or more URLs, and such that said automatically including the first parameter value in the first function call comprises automatically configuring the first function call with a reference to the first URL. As Austin suggests, such an implementation would enable programs created in the programming environment of Shulman and Sojoodi to access data from resources located on a network.

Conclusion

- The prior art made of record and not relied upon is considered pertinent to Applicant's disclosure (see the attached Notice of References Cited).
- Any inquiry concerning this communication or earlier communications from the
 examiner should be directed to Michael J. Yigdall whose telephone number is 571-272-3707.
 The examiner can normally be reached on Monday to Friday from 8:00 AM to 4:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Q. Dam can be reached on 571-272-3695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Michael J. Yigdall Examiner Art Unit 2192

/Michael J. Yigdall/ Examiner, Art Unit 2192